

# ACTIVITIES REGARDING 3D IN SWEDEN



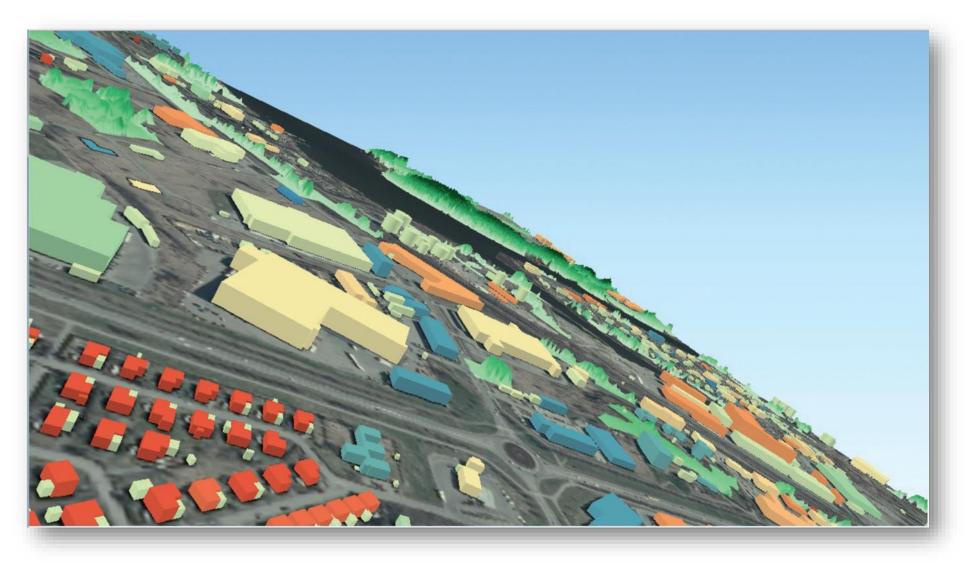
### NATIONAL GEODATA IN 3D



- Government assignment 2013-16 to investigate the conditions to deliver Lantmäteriets map- and imagedata in 3D
- Co-operation forum major producers in the public sector
  - o 3D test platform
  - Framework national spatial data in 3D
- The forum is currently dormant. The result is available at:

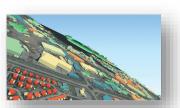
https://www.lantmateriet.se/en/aboutlantmateriet/Samverkan-med-andra/nationella-geodata-i-3d/





LANTMÄTERIET

### FRAMEWORK - NATIONAL SPATIAL DATA IN 3D



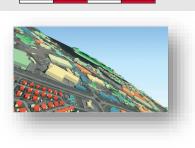
- The vision in the National Geodata Strategy is the starting point for the Framework's vision as well as the strategy's goals
- The framework was commissioned by the government, on the basis of the Lantmäteriet's government assignment, to investigate the conditions for providing map and image information in three dimensions
- Cooperation between stakeholders

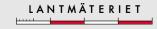


# FRAMEWORK - NATIONAL SPATIAL DATA IN 3D

Themes included, from a 3D perspective

- Pictures on the earth's surface
- Height and depth conditions
- Water areas, river basins and other hydrography
- Land cover
- Geological conditions soil depth, soil type, bedrock and groundwater
- Location of buildings
- Transport infrastructure road and railroad





### NATIONAL DRIVERS IN 3D AT THE MOMENT

## A smarter community-building process https://www.lantmateriet.se/en/about-lantmateriet/Samverkan-med-andra/lantmateriet---utvecklingsmyndighet-for-samhallsbyggnadsprocessen/

Lantmäteriets responsibility as a development authority in co-operation with National Board of Housing, Building and Planning, Municipalities etc ٠

#### Smart Built Environment

https://www.smartbuilt.se/in-english/

- national innovation and research program 10 years ٠
- publicly funded ٠
- joint program between the BIM, geodata and industrial processes domains ٠

## The Swedish Transport Administration BIM strategy https://www.trafikverket.se/for-dig-i-branschen/teknik/ny-teknik-i-transportsystemet/informationsmodellering-bim/

### EXAMPLES OF NATIONAL PROJECTS INCLUDING 3D

- A smarter community-building process
  - Project for national specifications that also includes 3D for detailed planning, building permits ...
- Smart Built Environment
  - Smart planning for the built environment process (ended)
    has created overview of data exchange specifications
  - Geodata och BIM data exchange specification (on-going and in cooperation with A smarter community-building process)



# Geodata och BIM data exchange specification



### PURPOSE

Facilitate future data exchange through uniform digital deliveries of Geodata in 3D and BIM in the building permit process.

### OBJECTIVE

- Develop and test detailed delivery specifications for the building permit process
- Contribute with input to future "manual of use" for relevant standards and specifications
- Provide suggestions for further development of relevant and tested specifications to "A smarter community-building process"